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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/809,500	03/26/2004	Shigehisa Tamagawa	8015-1028	7907
466 YOUNG & TH	7590 03/29/2007 IOMPSON		EXAM	INER
745 SOUTH 23RD STREET			SHEWAREGED, BETELHEM	
2ND FLOOR ARLINGTON,	VA 22202		ART UNIT	PAPER NUMBER
			1774	
			····	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/29/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/809,500	TAMAGAWA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Betelhem Shewareged	1774			
The MAILING DATE of this communication app	l	1			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37.CFR 1.704(b).	ATE OF THIS COMMUNICATION B6(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 27 Fe	ebruary 2007.				
	action is non-final.				
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.			
Disposition of Claims		· .			
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	vn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) 1-9 is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner					
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by the E	Examiner.			
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:		-(d) or (f).			
1. ☐ Certified copies of the priority documents					
2. Certified copies of the priority documents					
3. Copies of the certified copies of the priori		d in this National Stage			
application from the International Bureau  * See the attached detailed Office action for a list of		d			
occ the attached detailed office action for a list (	or the certified copies not receive	u.			
Attachment(s)					
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  A) Interview Summary (PTO-413)  Paper No(s)/Mail Date					
() ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  () ☐ Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal Page				
Paper No(s)/Mail Date 3/26/04.	6) Other:				
Patent and Trademark Office					

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## **DETAILED ACTION**

Applicant's response filed on 02/27/2007 has been fully considered. Claims 10 are canceled and claims 1-9 are pending.

## Election/Restrictions

2. Applicant's election without traverse of claims 1-9 in the reply filed on 02/27/2007 is acknowledged.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujimoto (US 6,387,478 B2) in view of Nakamura et al. (US 2003/0082473 A1) and Tashiro et al. (US 4,935,097).
- 5. Fujimoto discloses a color electrophotographic image receiving material comprising a substrate and a toner image receiving layer, wherein the substrate comprises a base paper and a resin layer provided on both surfaces of the base layer (abstract). The resin layer comprises polyolefin resin (col. 3, line 58). Fujimoto does not disclose a base paper as recited in the claimed invention.

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6. Nakamura teaches an image receiving sheet comprising a base paper and a toner receiving sheet (abstract). The base paper comprises pulp fibers having fiber length of 0.40-0.70mm [0033], fillers such as calcium carbonate and barium sulfate [0016], sizing agents such as alkylketene dimer and epoxidized fatty acid amide [0018], and a water-soluble high-molecular substance such as polyvinyl alcohol, carboxymodified polyvinyl alcohol, carboxymethylcellulose, hydroxyethylcellulose, cellulose sulfate and gelatin [0023]. The amount of polyvinyl alcohol is 1.0g/m² and the amount of calcium carbonate is 0.8 g/m² [0187]. The base paper undergoes calendar treatment with a roller at a surface temperature of 90-160 degree C [0036]. Nakamura does not teach a moisture content having the claimed value. However, at the time of the invention, it would have been obvious to a person of ordinary skill in the art to keep the moisture content of the base paper between 1.8-7% in order provide satisfactory effect of the calendaring treatment which controls the surface quality of the base paper (see col. 1, line 62 thru col. 2, line 2 of Tashiro).

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7. Fujimoto and Nakamura are analogous art because they are from the same field of endeavor, that is the electrophotographic recording medium art. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the base paper of Nakamura with the invention of Fujimoto so as to improve the quality of the toner image.

## Conclusion

- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Betelhem Shewareged whose telephone number is 571-272-1529. The examiner can normally be reached on Mon.-Fri. 8:00AM-4:30PM.
- 9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

BS

March 26, 2007.

ETELHEM SHEWAREGED PRIMARY EXAMINER